

AMENDMENT(S) TO THE CLAIMS

1-23 (cancelled)

24. (currently amended) A method of adding layers to a material web, comprising the steps of:

applying at least one first layer of a first application medium to a material web; and

applying at least one second layer of a second application medium to said material web,

5 each of said first application medium and said second application medium being one of a liquid medium and a pasty medium, at least one of said first application medium and said second application medium having a solids content in an approximate range of 2% by weight to 70% by weight, at least one of said first application medium and said second application medium having a Brookfield viscosity determined at 100 rev/min of between about 10 mPas and about 2000 mPas,  
10 said first application medium flowing to said material web in the form of a first curtain, said second application medium flowing to said material web in the form of a second curtain; and forming a pressure differential in a space between said first curtain and said second curtain, said pressure differential being relative to an ambient atmospheric pressure.

25. (previously presented) The method of claim 24, wherein said first application medium has a first water retention capacity, said second application medium having a second water retention capacity, said first water retention capacity being lower than said second water retention capacity.

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26. (previously presented) The method of claim 24, wherein said first application medium has a first density, said second application medium having a second density, said first density being at least about 10% greater than said second density.

27. (previously presented) The method of claim 24, wherein said first application medium has a first viscosity, said second application medium having a second viscosity, said first viscosity being greater than said second viscosity.

28. (previously presented) The method of claim 24, wherein at least one of said first application medium and said second application medium is one of an aqueous solution and an aqueous dispersion of solid particles.

29. (previously presented) The method of claim 28, wherein said at least one of said first application medium and said second application medium is one of an acrylate dispersion and a butadiene-styrene dispersion.

30. (previously presented) The method of claim 28, wherein said solid particles are one of mineral pigments and microscopic plastic particles.

31. (previously presented) The method of claim 28, wherein said solid particles are one of plastic pigments, ink-filled microcapsules and starch.

32. (previously presented) The method of claim 24, wherein said first application medium is used for forming a barrier layer, said first application medium having at least one of said following properties:

a solids content in an approximate range of 2% by weight to 30% by weight;

5 a Brookfield viscosity determined at 100 rev/min of between about 10 mPas and about 150 mPas; and

a density of between about 0.8 g/cm<sup>3</sup> and about 1.1 g/cm<sup>3</sup>.

33. (previously presented) The method of claim 24, wherein said first application medium is a starch solution.

34. (currently amended) The method of claim 24, wherein said first application medium is applied by a first curtain applicator unit that is configured for applying an amount of said first application medium applied to said moving base, said amount being between about 2 ~~ml/m<sup>2</sup>~~ ml/m<sup>2</sup> and about 20 ~~ml/m<sup>2</sup>~~ ml/m<sup>2</sup>.

35. (previously presented) The method of claim 24, wherein said second application medium is a dispersion of ink-filled microcapsules, each of said microcapsules having a microcapsule diameter associated therewith, said second application medium having at least one of said following properties:

5 each of said microcapsules having a microcapsule diameter of between about 5 µm and about 12 µm;

a solids content of between about 20% by weight and about 50% by weight; and

a Brookfield viscosity determined at 100 rev/min of between about 100 mPas and about 400 mPas.

36. (currently amended) The method of claim 24, wherein said second application medium is applied to a moving base at between about 5 ~~ml/m<sup>2</sup>~~ ml/m<sup>2</sup> and about 30 ~~ml/m<sup>2</sup>~~ ml/m<sup>2</sup>.

37. (currently amended) The method of claim 24, wherein said applying at least one first layer step and said applying at least one second layer step are carried out by an apparatus, said apparatus including:

a first curtain applicator unit including a first discharge nozzle, said first curtain applicator unit discharging the first application medium through said first discharge nozzle in a form of [[a]] said first curtain onto a moving base, said first curtain moving substantially under the force of gravity; and

a second curtain applicator unit including a second discharge nozzle, said second curtain applicator unit discharging said second application medium through said second discharge nozzle in a form of [[a]] said second curtain onto said moving base, said second curtain moving substantially under the force of gravity, said first applicator unit being positioned relative to said second applicator unit such that a spacing of about 100 mm to about 500 mm separates said first curtain and said second curtain.

38. (previously presented) The method of claim 37, wherein at least one of said first curtain applicator unit and said second curtain applicator unit applies said first application

medium and said second application medium, respectively, to said moving base in a substantially finally metered manner.

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39. (previously presented) The method of claim 37, further comprising the step of producing one of a vacuum and a positive pressure with a pressure-differential device, said pressure-differential device being operatively positioned between said first curtain applicator unit and said second curtain applicator unit.

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40. (previously presented) The method of claim 37, wherein each of said first curtain and said second curtain has a curtain flow path and a curtain width associated therewith, said apparatus further comprising at least one guide element, each said guide element being arranged within said curtain flow path of one of said first curtain and said second curtain, each said guide element guiding one of said first curtain and said second curtain along at least a part of said curtain flow path and substantially over said curtain width associated therewith.

41. (previously presented) The method of claim 37, wherein each of said first curtain and said second curtain has a curtain height of between about 40 mm and about 400 mm.

42. (previously presented) The method of claim 37, wherein said first curtain applicator unit and said second curtain applicator unit discharge said first application medium and said second application medium, respectively, onto said moving base at a rate of between about 4 l/min and about 100 l/min per meter of working width.

43. (currently amended) The method of claim 37, wherein said moving base is one of  
graphic papers and cardboard, said moving base ~~having~~ has a base running speed associated  
therewith, said base running speed being up to 3000 m/min ~~in the case of~~ for coating of said  
graphic papers, said base running speed being at least 200 m/min ~~in the case of~~ for coating of said  
5 cardboard.

44. (currently amended) The method of claim 37, wherein said first curtain applicator  
unit and said second curtain applicator unit together produce a grammage of coated material web  
of between about 30 g/m<sup>2</sup> and about 150 g/m<sup>2</sup> ~~in the case of~~ for coating of said graphic papers and  
between about 150 g/m<sup>2</sup> and 1000 g/m<sup>2</sup> ~~in the case of~~ for coating of said cardboard.

45. (previously presented) The method of claim 37, wherein said apparatus is configured  
for processing a material web that is one of a paper web, a cardboard web, a film web and a textile  
web.